

FIG.2

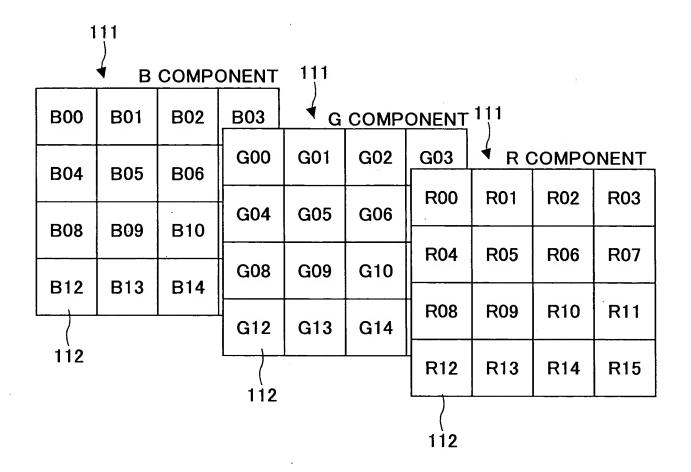
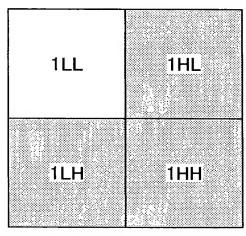


FIG.3A

FIG.3B

OLL (ORIGINAL IMAGE TILE)

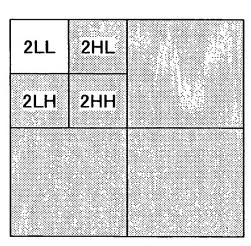
DECOMPOSITION_LEVEL_0



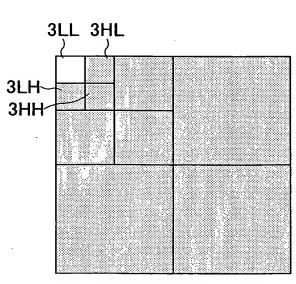
DECOMPOSITION_LEVEL_1

FIG.3C

FIG.3D

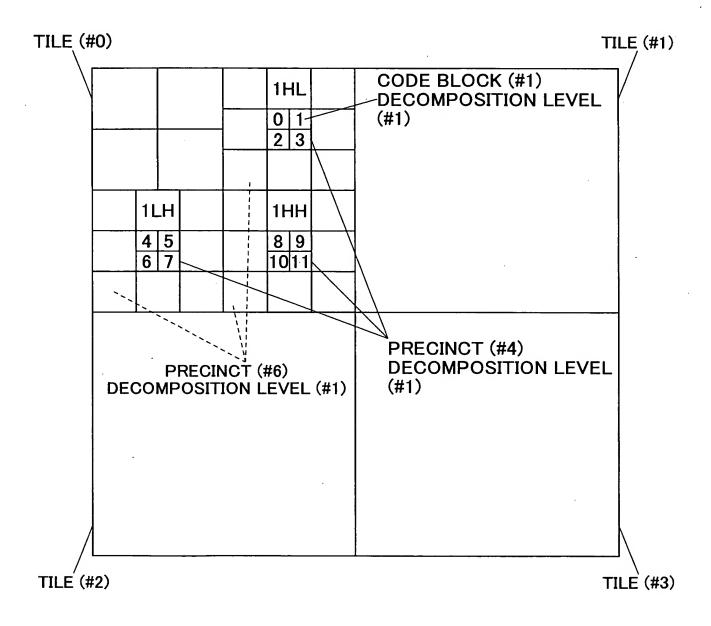


DECOMPOSITION_LEVEL_2



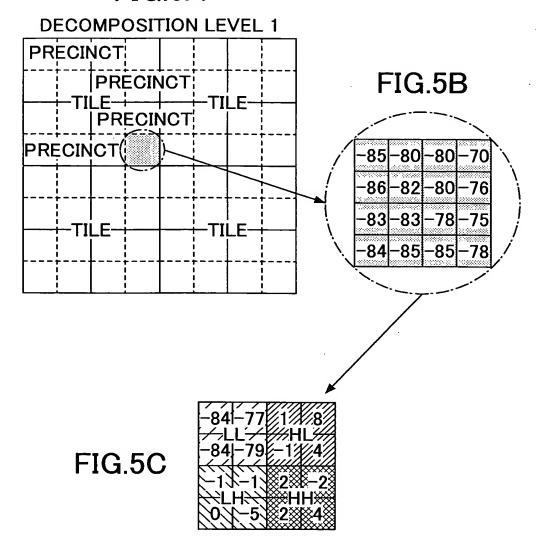
DECOMPOSITION_LEVEL_3

FIG.4



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FIG.5A



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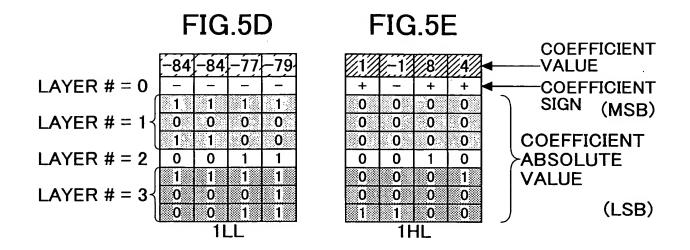


FIG.5F

	0/	\mathbb{Z}_{1}	-5
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0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	1
0	0	0	0
1	0	1	1
	1 L	.H	

FIG.5G

⊗2 ⊗	⊗2 ⊗	2	
+	+	_	+
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	1
1	1	1	0
0	0	0	0
	11-	1 H	

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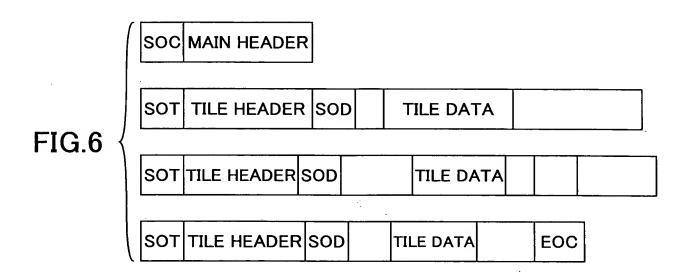


FIG.7

SOC SIZ COD DEFAULT CODE STYLE (MANDATORY) COC CODE STYLE COMPONENT QCD **DEFAULT QUANTIZATION (MANDATORY)** QCC QUANTIZATION COMPONENT **RGN** ROI POC **DEFAULT PROGRESSIVE ORDER** PPM SUMMARY PACKET TLM TILE LENGTH PLM PACKET LENGTH CRG **COLOR DEFINITION**

COM

COMMENTS

FIG.8A

FIG.8B

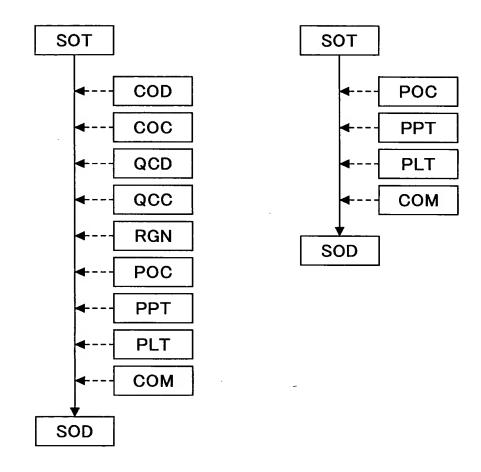


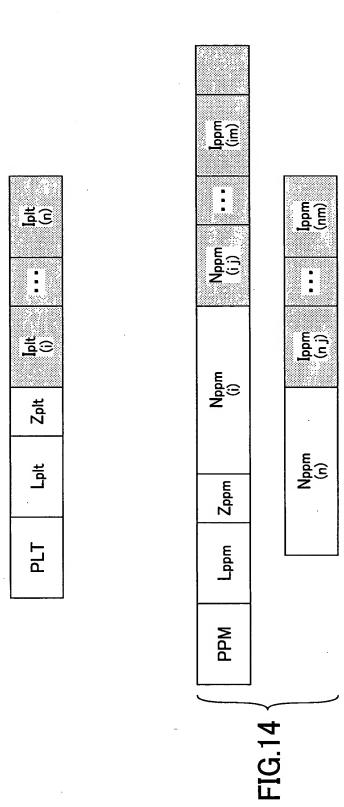
FIG.9

SOT	Lsot	Isot	Psot	TPsot	TNsot
-----	------	------	------	-------	-------

FIG. 10

SIZE (BITS) VALUES	16 Oxffd9	FIG.11	Ltim Ztim Stim Ttim Ptim Ptim (i) (i) (n) (n)	I Lpim Zpim Npim Ipim (i.) (i.j) (im)	Npim Ipim (nm) (nm)
PARAMETER S	EOC		TLM	PLM	-IG.12 〈

FIG.13



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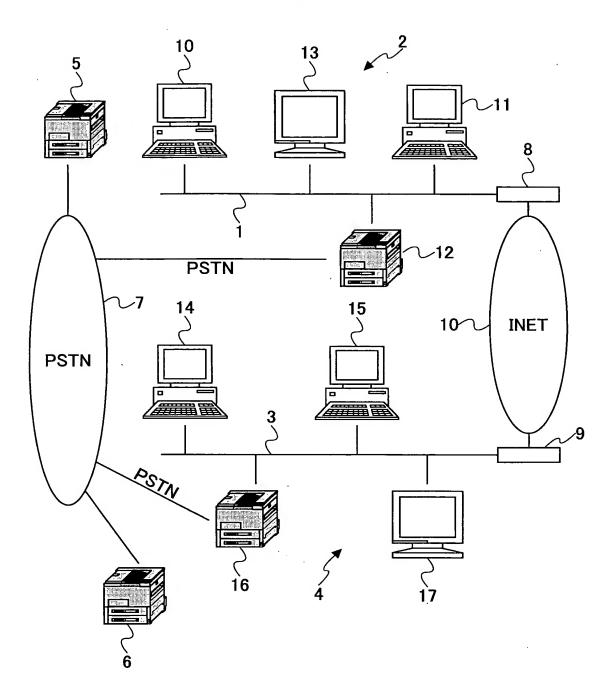
FIG.15

PPT Lppt Zppt	Ippt Ippt (n)
---------------	---------------

FIG.16

СОМ	Lcom	Rcom	Ccom Ccom (n)
-----	------	------	---------------

FIG.17



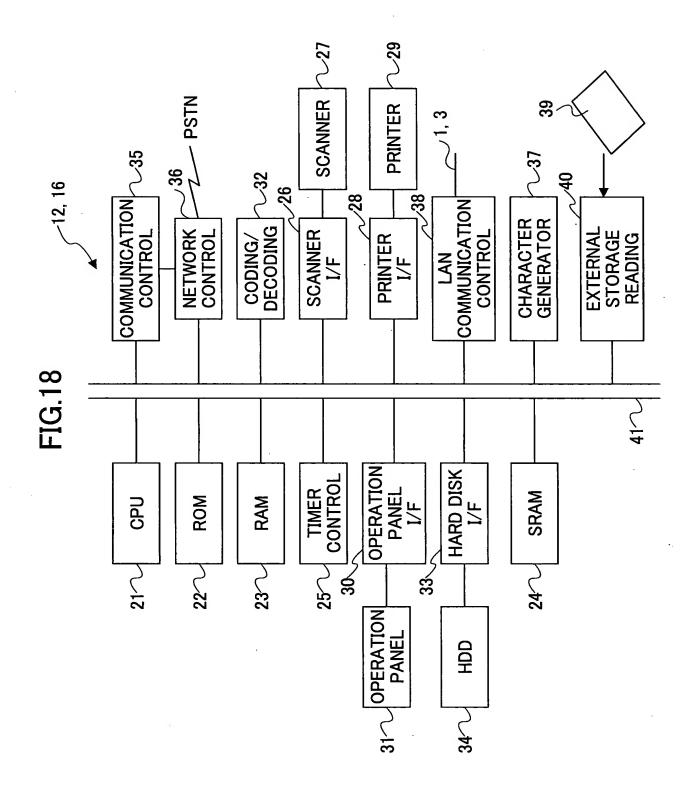
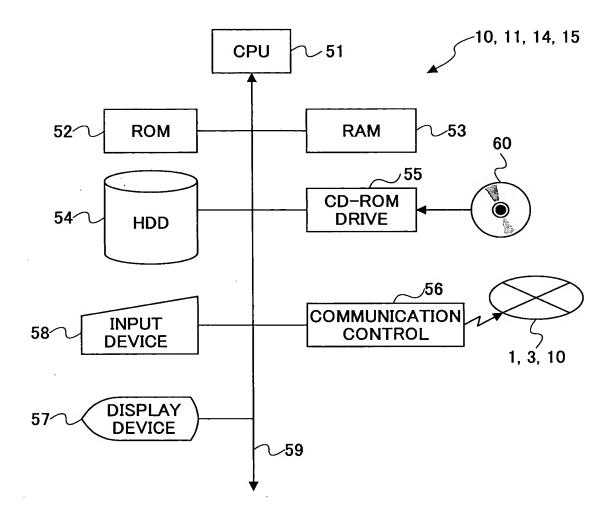


FIG.19



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FIG.20A

TILE-PART HEADER

soт	CODE DATA
TILE-PA	ART LENGTH (SOT (Psot))

FIG.20B

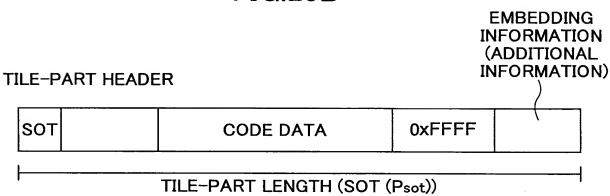


FIG.21

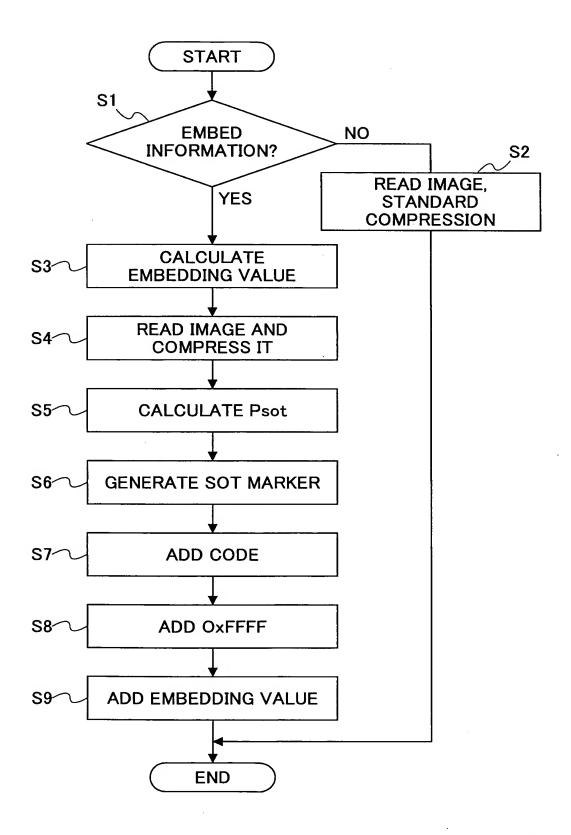
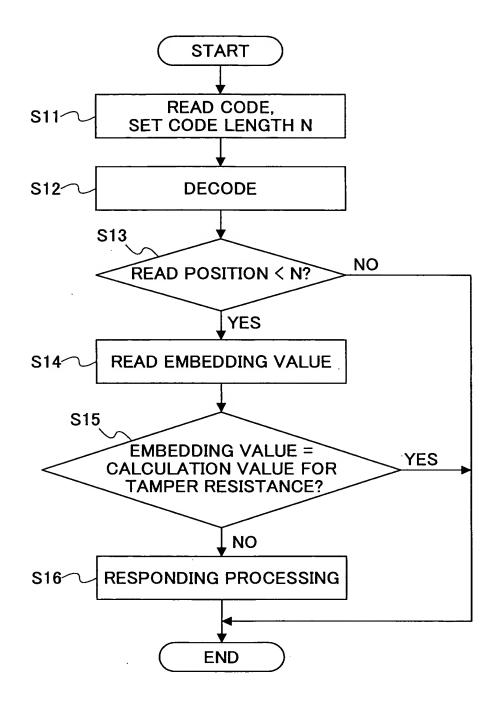


FIG.22



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	MAIN HEADER	TILE-PART HEADER	BIT STREAM	
		TILE-PART HEADER	BIT STREAM	
TG.23A		TILE-PART HEADER	BIT STREAM	
		TILE-PART HEADER	BIT STREAM	
			00) END OF CODESTREAM
	MAIN HEADER	TILE-PART HEADER	BIT STREAM	[<u>-</u>
		TILE-PART HEADER	BIT STREAM	<u> </u>
TG.23B		TILE-PART HEADER	BIT STREAM	
		TILE-PART HEADER	BIT STREAM	
	END OF CODESTREAM	EMBEDDI (ADDITION	EMBEDDING INFORMATION (ADDITIONAL INFORMATION)	

FIG.24

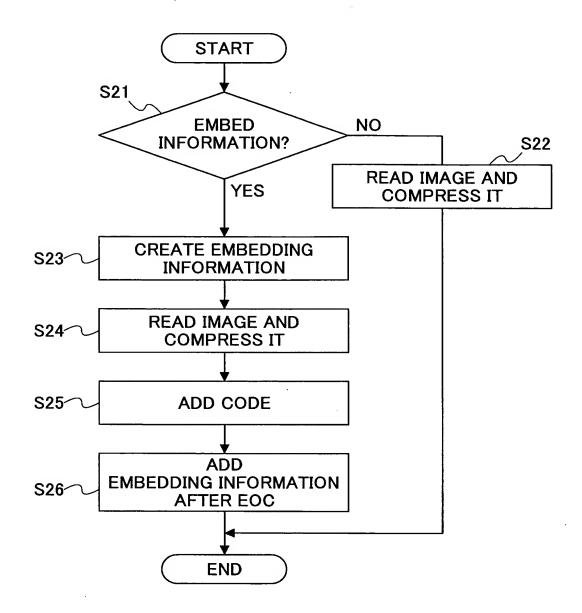
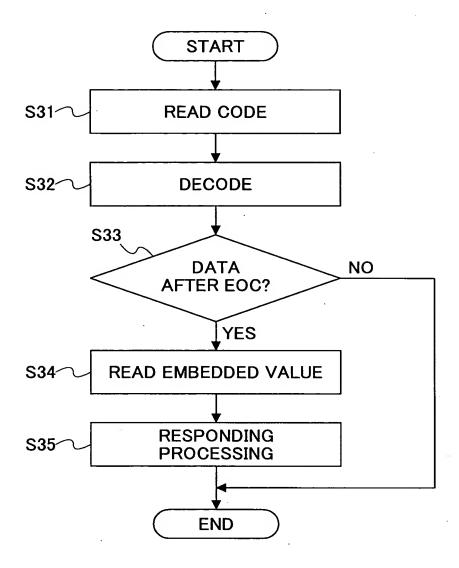
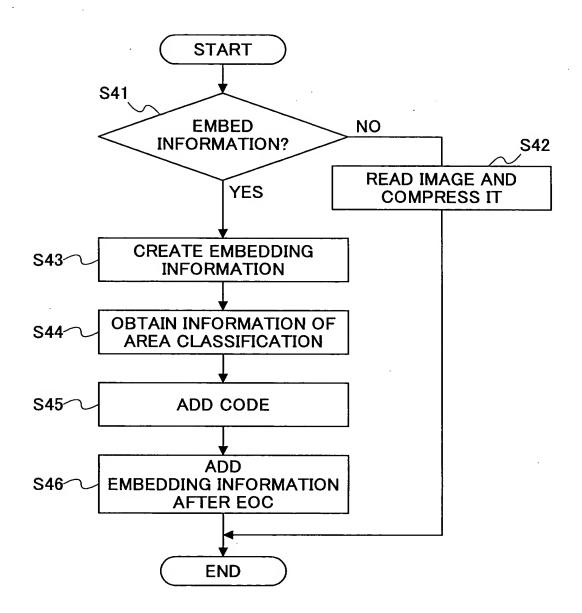


FIG.25



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FIG.26



OBLON, SPIVAK, ET AL DOCKET #: 245691US2 INV: Taku KODAMA, et al. SHEET 22 OF 57

FIG.27

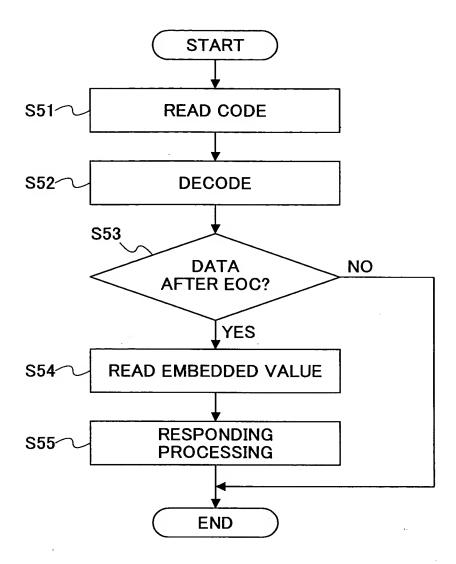


FIG.28

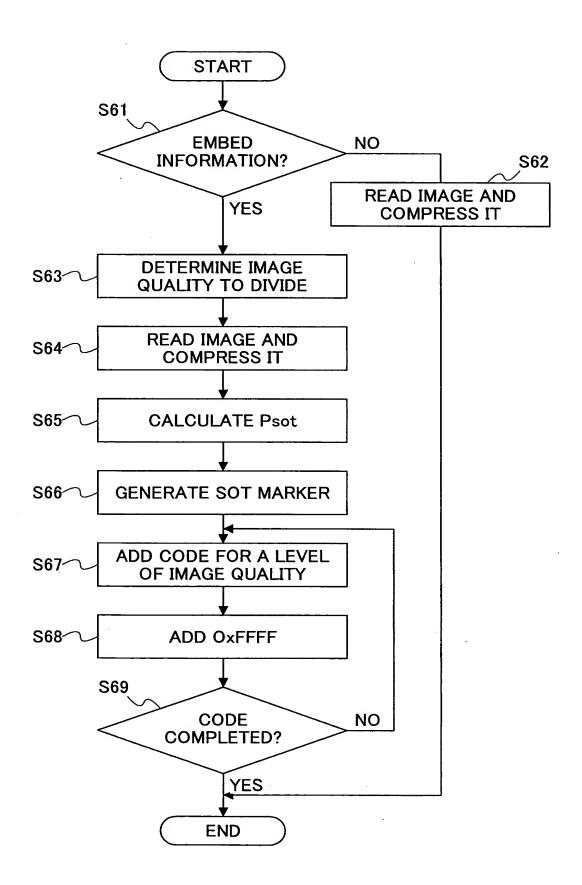
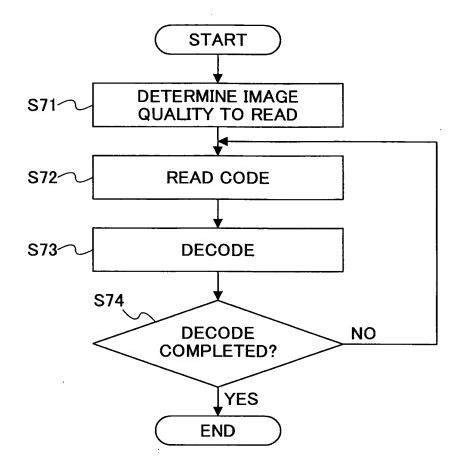
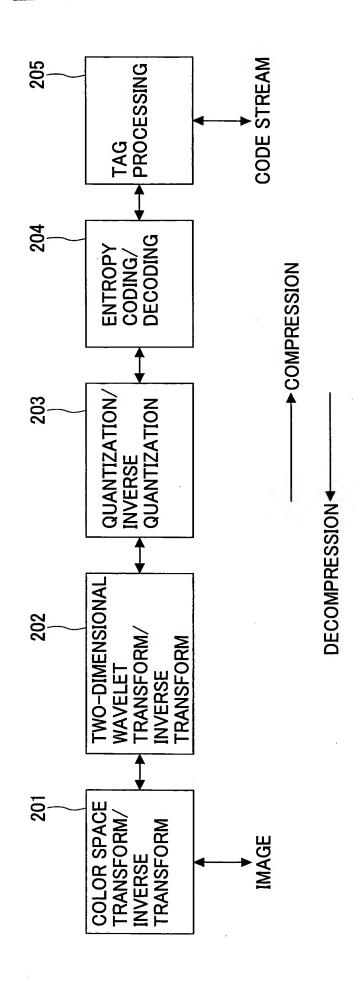


FIG.29

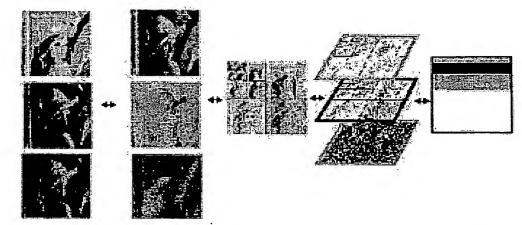






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FIG.31



ORIGINAL RGB IMAGE (S201)

COLOR (S202)

WAVELET (S203)

PROGRESSIVE CONVERSION TRANSFORM SUB-BIT-PLANE CODING (S204)

ENTROPY CODING (S205)

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FIG.32A

FIG.32B

206

1LL 1HL

OLL

(ORIGINAL IMAGE TILE)

DECOMPOSITION_LEVEL_0

DECOMPOSITION_LEVEL_1

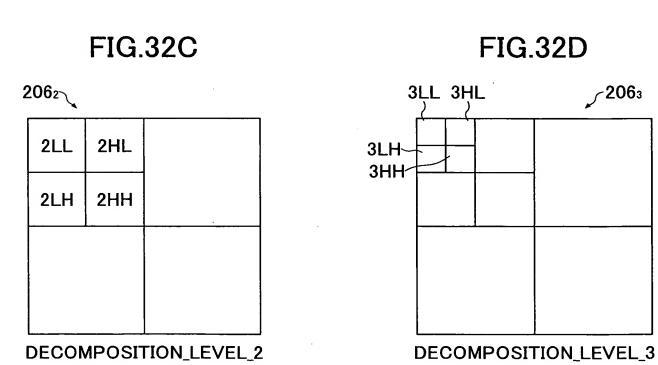


FIG.33

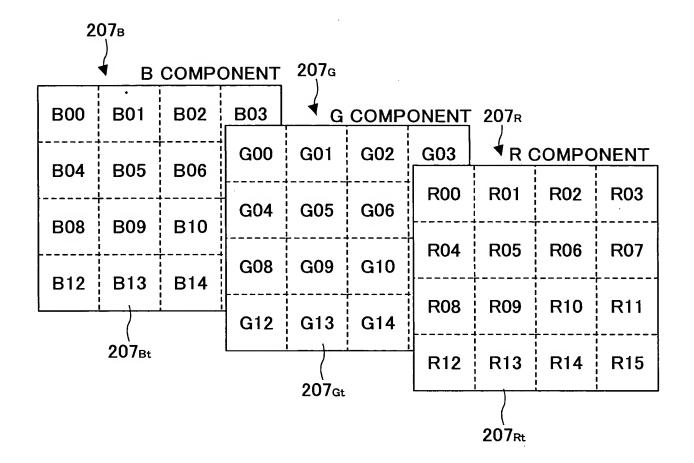
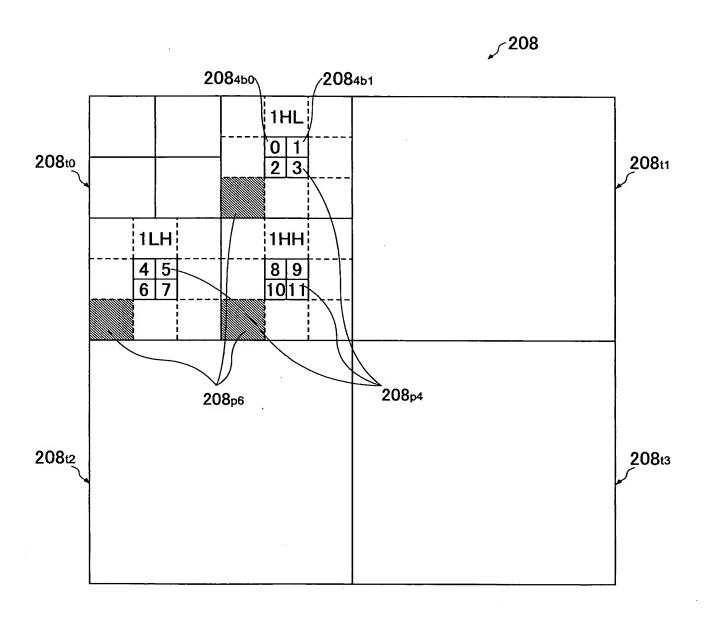


FIG.34



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	က	Ī	46	9	88	8	8 🗱	151	172	8	230	8	
	2	Ī	45	99	18	8	129	2	ĒΠ	192	209	22	
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	2		2	99	87	8	28	8	7	92 1	209 2	222	SK III
İ	_		92	93	98	10	88	149	2	91 1	208 2	221 2	
	0		25	8	85	90	27 1	8	1 69	8	207	220 2	
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	2		9	14 15	0.5	88	67)	100 101	121 122	142 143	163	184	201 202
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	0		0	ω,	91	2 72	52 6	173 (74	8	115 11	138	157 11	178
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		SUB-BIT PLANE	CLEANUP SIGNIFICANT REFINEMENT CLEANUP	SIGNIFICANT REFINEMENT CLEANUP	SIGNIFICANT REFINEMENT QLEANUP	SIGNIFICANT REFINEMENT CLEANIP	SIGNIFICANT REFINEMENT CLEANUP	SIGNIFICANT REFINEMENT CLEANUP	SIGNIFICANT REFINEMENT CLEANUP	SIGNIFICANT REFINEMENT CLEANUP	SIGNIFICANT REFINENENT CLEANUP	SIGNIFICANT REFINEMENT CLEANUP	SIGN / FICANT REFINEMENT CLEANIP
SUB-BAND	€.		CODE	9	9	98	7-TH BIT CODE	6-TH BIT CODE	5-TH BIT CODE	99	3-RD BIT CODE	2-ND BIT CODE	1-ST BIT CODE
SE	PRECINCT No.	BIT PLANE	E E	BIT	Ħ	ᇤ	Ħ	BI 1	Ħ	ᇤ	₩	Ħ	BIT
	PREC	ш	12-TH BIT CODE 11-TH BIT CODE	10-TH BIT CODE	9-TH BIT CODE	8-TH BIT CODE	1 -	Ē	<u>₹</u>	4-TH BIT CODE	문	2-년	1 - S
			==	=		_		_		-			-

83

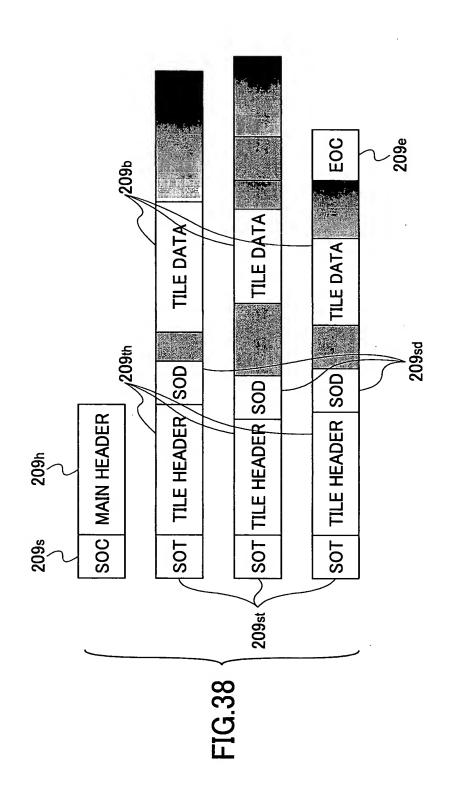
FIG.36

SUB-BAND	PRECINCT NO. BIT PLANE MSB	12-TH BIT CODE 11-TH BIT CODE	IO-TH BIT CODE	9-TH BIT CODE	8-TH 81T CODE	7-TH BIT CODE	6-TH 81T CODE	5-TH BIT CODE	4-TH BIT CODE	3-RD BIT CODE	2-ND BIT CODE	1-ST BIT CODE	BS T					
	SUB-BIT PLANE	CLEANUP SIGNIFICANT REFINEMENT CLEANUP	SIGNIFICANT REFINEMENT GLEANUP	SIGNIFICANT REFINEMENT CLEANUP	SIGNIFICANT REFINEMENT CLEANUP	SIGNIFICANT REFINEMENT CLEANUP	SIGNIFICANT REFINEMENT CLEANUP	SIGNIFICANT REFINEMENT CLEANIP	SIGNIFICANT REFINEMENT CLEANUP	SIGNIFICANT REFINEMENT GLEANUP	SIGNIFICANT REFINEMENT CLEANIP	SIGNIFICANT REFINEMENT GLEANUP						
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취.	-	2	13	12	5	178	66	120	2	162	8	20			217			
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FIG.39

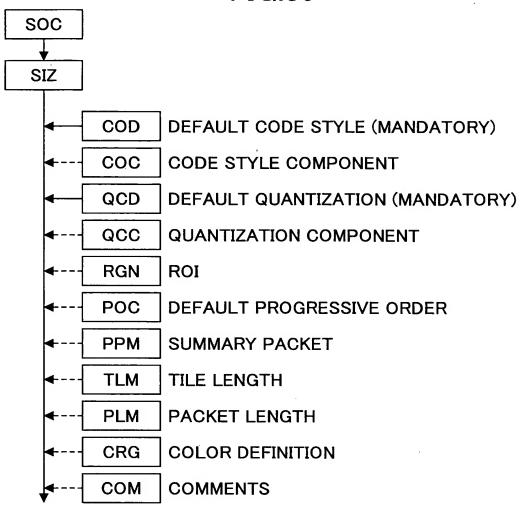
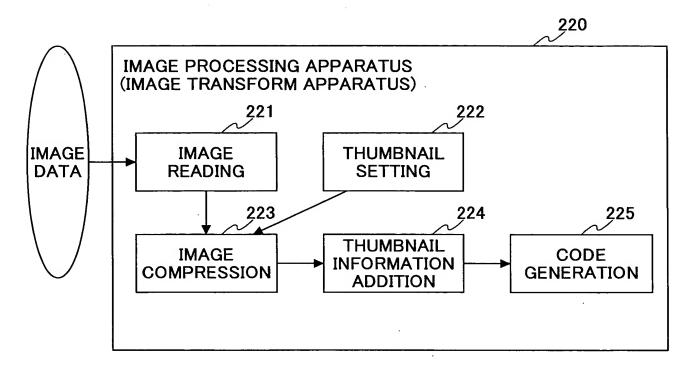


FIG.40

JP2 FILE
JPEG2000 SIGNATURE BOX
FILE TYPE BOX
JP2 HEADER BOX (SUPER BOX)
IMAGE HEADER BOX
BITE PER COMPONENT BOX
COLOR SPECIFICATION BOX (0)
<u>:</u>
COLOR SPECIFICATION BOX (n)
PALETTE BOX
COMPONENT MAPPING BOX
CHANNEL DEFINITION BOX
RESOLUTION BOX (SUPER BOX)
CAPTURE RESOLUTION BOX
DEFAULT DISPLAY RESOLUTION BOX
CONTIGUOUS CODESTREAM BOX (0)
<u> </u>
CONTIGUOUS CODESTREAM BOX (m-1)
IPR BOX
XML BOXES
UUID BOXES
UUID INFO BOXES (SUPER BOX)
UUID LIST BOX
DATA ENTRY URL BOX

FIG.41



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FIG.42

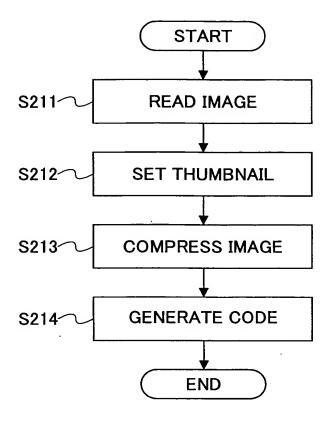


FIG.43

	230			
231 /	232			
2				
DISPLAY DEVICE (bps)	THUMBNAIL			
DIGITAL CAMERA	CENTER TILE LAYER 3			
IMAGE VIEWER SOFTWARE	DECOMPOSITION LEVEL 3 LAYER 5			
CELLULAR PHONE	DECOMPOSITION LEVEL 5			
DIGITAL VIDEO CAMERA	FRAME NUMBER: 2N+1 DECOMPOSITION LEVEL 3			
TV BROADCAST	ALL FRAMES TILES 6, 7, 10, 11 DECOMPOSITION LEVEL 3			
HIGH-VISION BROADCAST	ALL FRAMES DECOMPOSITION LEVEL 3			

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FIG.44





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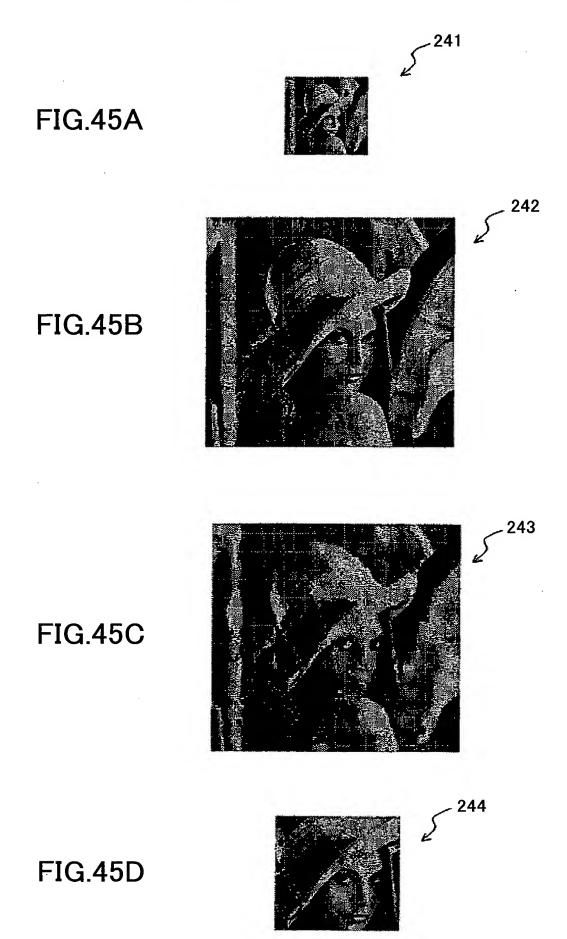


FIG.46

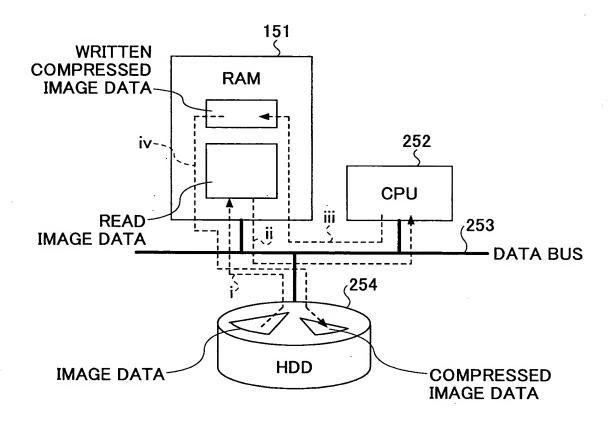


FIG.47

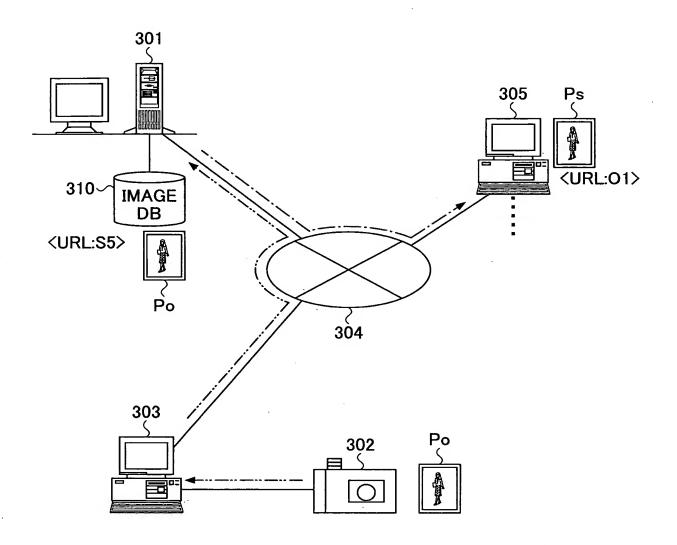
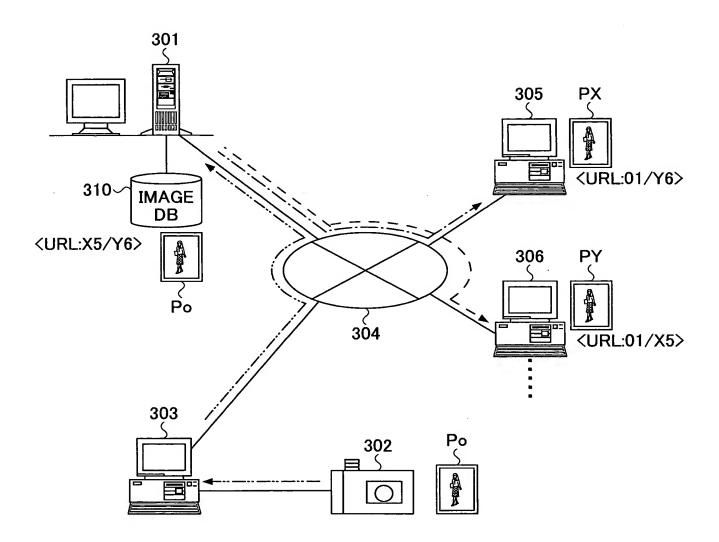


FIG.48





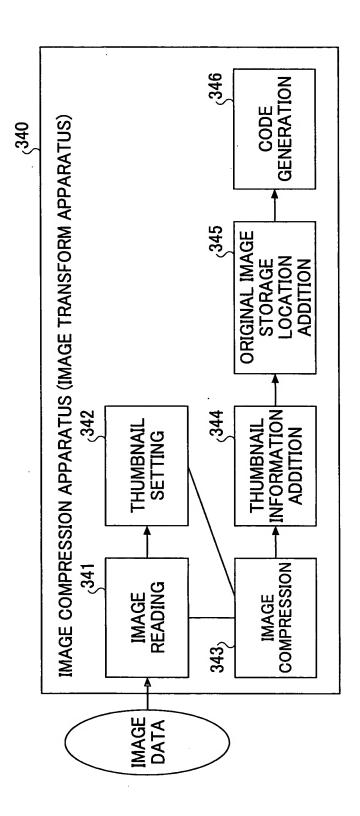
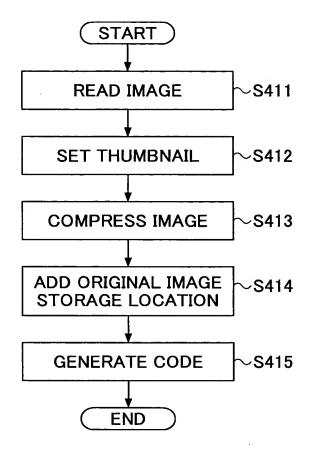


FIG.50



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FIG.51A

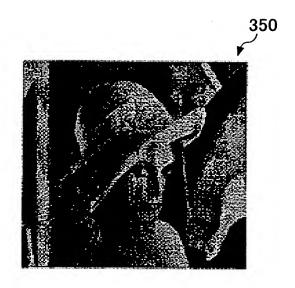


FIG.51B

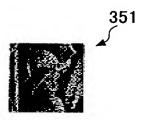


FIG.52

TAG DESCRIPTION LEVEL (2) - 0th IFD Exit Private Tag -

		TAG NI	IMBER	NON-COMPRESSION			сом-
TAG NAME Field Name		Dec	Hex	POINT	PLANE ORDER	YCC	PRES- SION
	ExposureTime	33434	829A	ORDER	ORDER	Δ	Δ
EXPOSURE TIME	FNumber	33437	829D	<u> </u>		<u> </u>	
F NUMBER		34850	8822	<u> </u>	\ \overline{\text{\tilde{\text{\tilde{\text{\tilde{\text{\tilde{\text{\tilde{\tilde{\text{\tilde{\text{\tilde{\text{\tilde{\tiii}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}	<u> </u>	
EXPOSURE PROGRAM	ExposureProgram SpectralSensitivity	34852	8824	Δ	<u> </u>		
SPECTRAL SENSITIVITY	•	34855	8827				
ISO SPEED RATE	ISOSpeedRatings OECF	34856	8828	Δ			
PHOTOELECTRIC CONVERSION FUNCTION		36864	9000	@	6	a	6
EXIF VERSION	Exif Version	36867	9000	Δ	A	Δ	Δ
ORIGINAL IMAGE DATA CREATED DATE	DateTimeOriginal					Δ	Δ
DIGITAL DATA CREATED DATE	DateTime Digitized	36868	9004	_		×	Ø
 MEANING OF EACH COMPONENT 	ComponentsConfiguration	37121	9101	×	×		
IMAGE COMPRESSION MODE	CompressedBitsPerPixel	37122	9102	×	×	×	A
SHUTTER SPEED	ShutterSpeedValue	37377	9201	A	💠	. —	1 -
APERTURE VALUE	ApertureValue	3737B	9202	_ <u> </u>	_	<u> </u>	🛕
BRIGHTNESS VALUE	BrightnessValue	37379	9203	<u> </u>	A	4	<u> </u>
EXPOSURE CORRECTION VALUE	ExposureBiasValue	37380	9204	<u> </u>	A	Δ	🌣
LENS MINIMUM F NUMBER	MaxApertureValue	37381	9205	Δ	Δ	Δ	A
SUBJECT DISTANCE	SubjectDistance	37382	9206	Δ	A	Δ	A
PHOTOMETRIC METHOD	MeteringMode	37383	9207	Δ	Δ	Δ	Δ
. LIGHT SOURCE	LightSource	37384	9208	A	Δ	Δ	Δ
FLASH	Flash	37385	9209	Δ	Δ		Δ
LENS FOCAL LENGTH	FocalLength	37386	920A	Δ	Δ	Δ	Δ
MANUFACTURER'S NOTES	MakerNote	37500	927C	Δ		Δ	Δ
USER'S COMMENTS	UserComment	37510	9286	Δ		Δ	Δ
SUB SEC OF DATE TIME	SubSecTime	37520	9290	Δ	Δ		Δ.
SUB SEC OF DATE TIME ORIGINAL	SubSecTimeOriginal	37521	9291	Δ	Δ		Δ
SUB SEC OF DATE TIME DIGITIZED	SubSecTimeDigitized	37522	9292	Δ	Δ		Δ
FLASH PIX VERSION	FlashPixVersion	40960	A000	0	0	0	0
COLOR SPACE INFORMATION	ColorSpace	40961	A001	0	0	0	0
EFFECTIVE IMAGE WIDTH	PixeIXDimension	40962	A002	×	×	×	0
EFFECTIVE IMAGE HEIGHT	PixeYDimension	40963	A003	×	×	×	0
RELATED SOUND FILE	RelatedSoundFile	40964	A004			Δ	Δ
POINTER FOR INTEROPERABILITY IFD	Interoperability IFD Pointer	40965	A005	l ×	l ×	l ×	Δ
FLASH ENERGY	FlashEnergy	41483	A20B		Δ		
SPATIAL FREQUENCY RESPONSE	SpatialFrequencyResponse	41484	A20C				Δ
FOCAL PLANE WIDTH RESOLUTION	FocalPlaneXResolution	41486	A20E				
FOCAL PLANE HEIGHT RESOLUTION	FocalPlaneYResolution	41487	A20F				
FOCAL PLANE RESOLUTION UNIT	FocalPlaneResolutionUnit	41488	A210	<u> </u>			<u> </u>
SUBJECT LOCATION	SubjectLocation	41492	A214				<u> </u>
SUBJECT LOCATION EXPOSURE INDEX	ExposureIndex	41493	A215				Δ
SENSOR METHOD	SensingMethod	41495	A217				
FILE SOURCE	FileSource	41728	A300				
SCENE TYPE	SceneType	41729	A301				
CFA PATTERN	CFAPattern	41730	A302				
SIAFAITEM	Of Ar attent	171730	7,502				

- MEANING OF SYMBOL:

 (a) MANDATORY (WHICH SHOULD BE DESCRIBED)

 (b) SEMI-MANDATORY(WHICH SHOULD BE DESCRIBED UNLESS LIMITATION DUE TO HARDWARE OR SO)

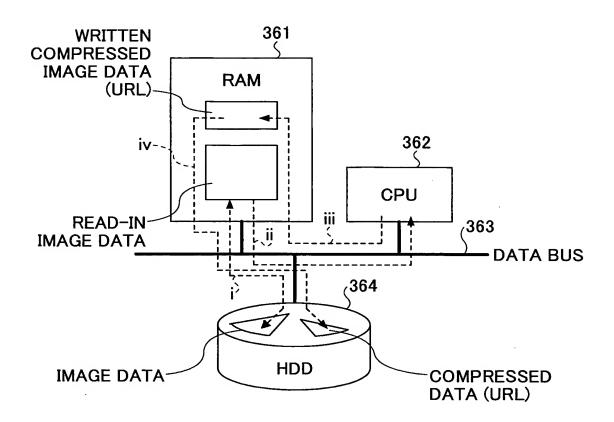
 (c) OPTIONAL(DESCRIBED AS NEEDED ACCORDING TO PARTICULAR DEVICE)

 (c) NOT BE DESCRIBED

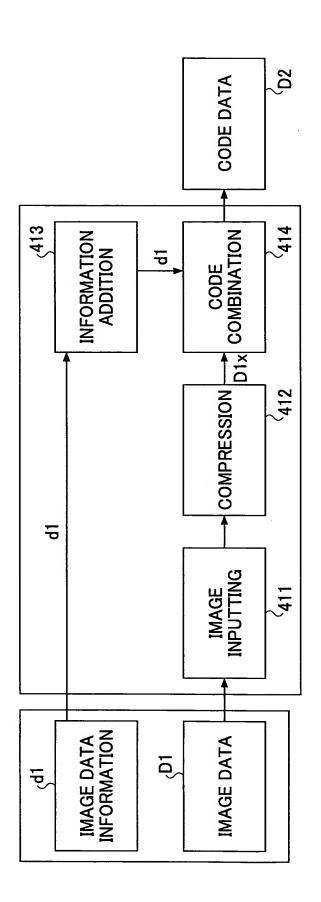
 (d) WARRER

 (e) MARKER

FIG.53







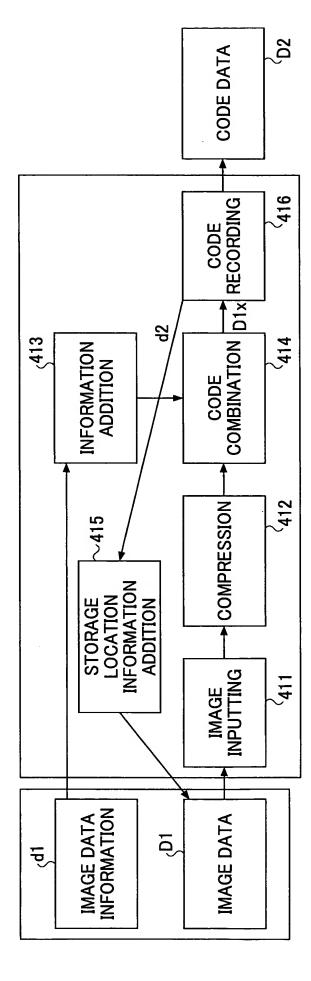
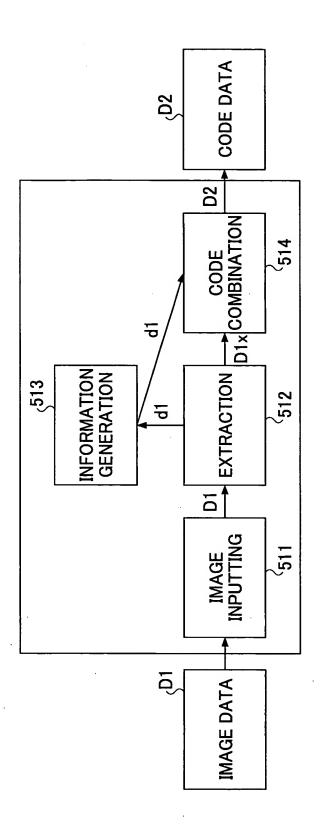
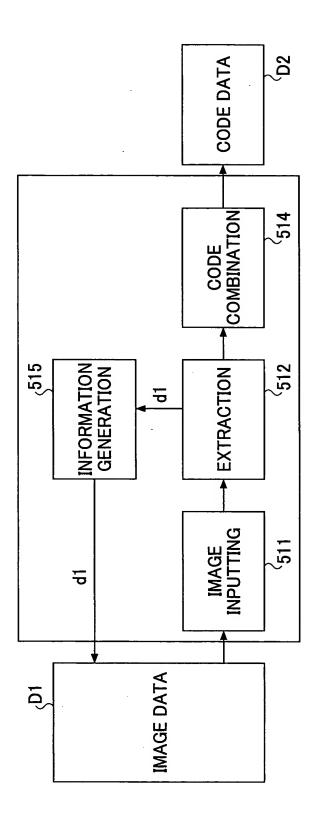


FIG.55

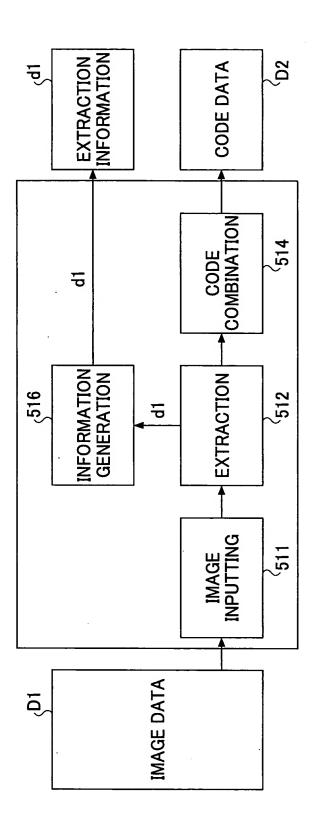




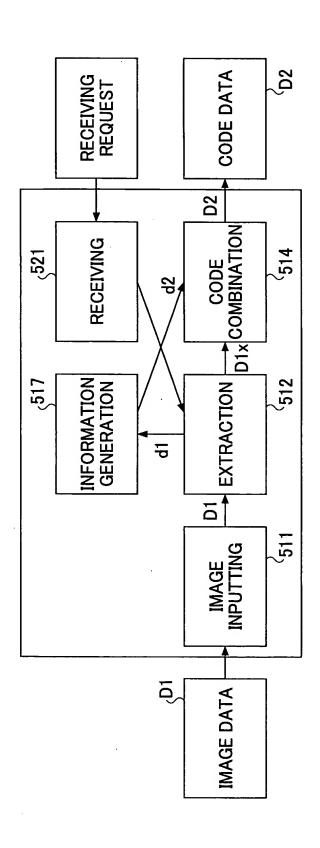




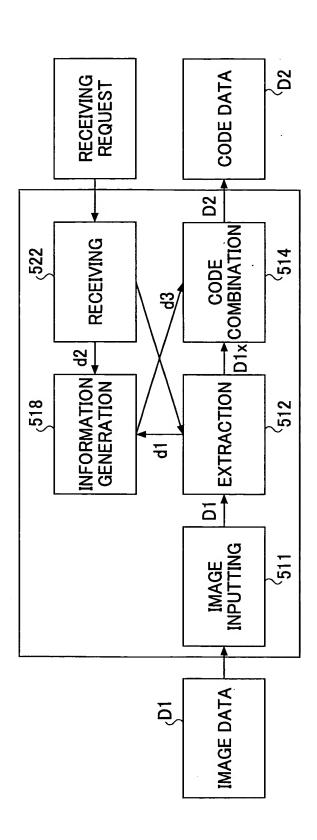




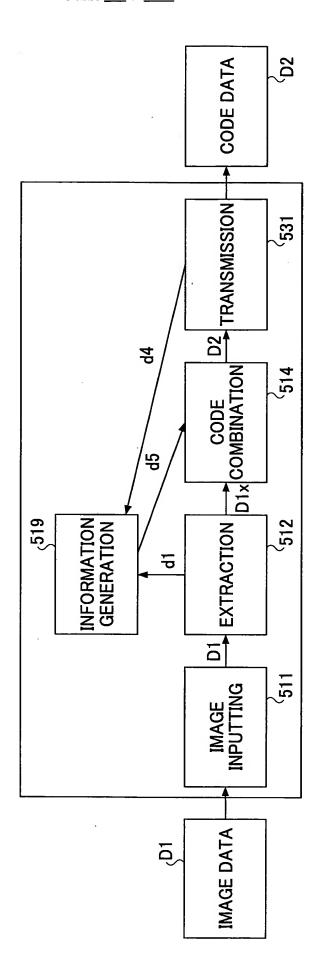












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FIG.62

EMBEDDING DIEGDMANION	T	T			
EMBEDDING INFORMATION IMAGE ATTRIBUT					
EMBED ORIGINAL IMAGE	SIZE				
INFORMATION TO	CRATED DATE/TIME				
EXTRACTED IMAGE	UPDATED DATE/TIME				
EMBED EXTRACTED IMAGE INFORMATION TO ORIGINAL	COMMENTS				
IMAGE	ACCESS DATE/TIME				
	POSSESSOR				
	CREATOR				
	TITLE				
	SUBJECT				
	CATEGORY				
	NUMBER OF PAGES				
	COPYRIGHT				
	COMPANY NAME				
	APPLIED SOFTWARE				
	COMPRESSION METHOD	JPEG、J2K、GIF、			
	COMPRESSION CONDITION:	IMAGE SIZE, POSITION OFFSET			
		TILE SIZE, OFFSET			
		PRECINCT SIZE			
		CODE BLOCK SIZE			
		PROGRESSION ORDER			
		NUMBER OF LAYERS			
		COLOR TRANSFORM			
	·	NUMBER OF LEVELS			
		QUANTIZATION PARAMETER			
SENDER, RECEIVER	NAME				
SERVER, CLIENT	PC NAME	URL, IP ADDRESS			
	TRANSFER METHOD	TCP/IP、HTTP、FTP			
	DATE/TIME				
EXTRACTION CONDI TON	TILE NUMBER				
	PACKET NUMBER				
	EXTRACTING PACKET	RESOLUTION			
	COMPONENT	COLOR COMPONENT			
		PRECINCT			
		LAYER			
	EXTRACTION TIME				
	<u> </u>	<u> </u>			